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Patent Abstracts of Japan

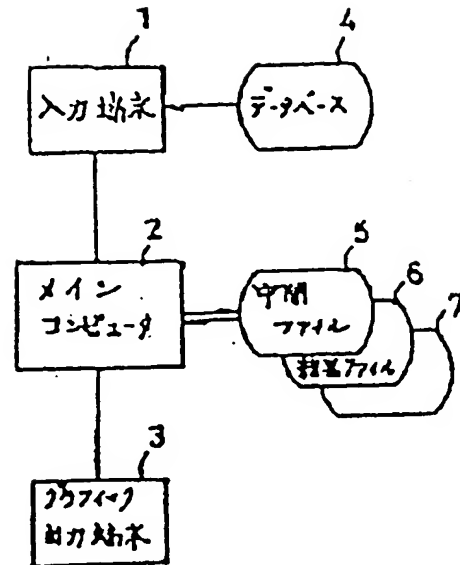
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TITLE : PREDICTING METHOD FOR
APPEARANCE FAILURE IN
INJECTION MOLDINGS



ABSTRACT : PURPOSE: To easily predict appearance failure such as burning by splitting the shape of injection moldings into finite elements and incorporating an analytical modulator for deciding whether the maximum value of temp. history is at least the prescribed value at every element into a simulation method.
CONSTITUTION: Shape data obtained by splitting the shape of a mold into the fine finite elements, resin data and the data of molding conditions are stored in a data base 4. These data are inputted into a fluidization analytical module M. Therein the flow place of molding resin is calculated and quantity of heat momentarily given to resin is calculated together with the position and time information and also the temp. history of resin is calculated by the calculated quantity of heat. Then the calculation result of the fluidization analysis is output to an intermediate file 5. Therein a predictive index during a packing process of resin is calculated by using a prescribed burning prediction expression. In other words, the maximum value of the temp. of resin for the respective elements within a time wherein resin is packed into a mold is obtained at every element. Generation of burning is decided by comparing this maximum value with the prescribed temp of resin.